

Fig. 1A

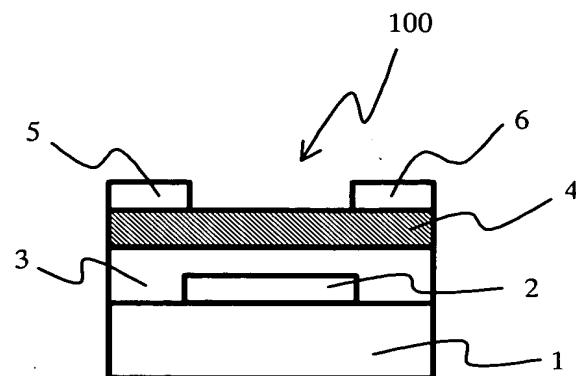


Fig. 1B

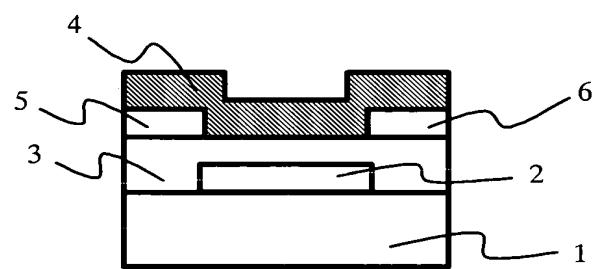


Fig. 1C

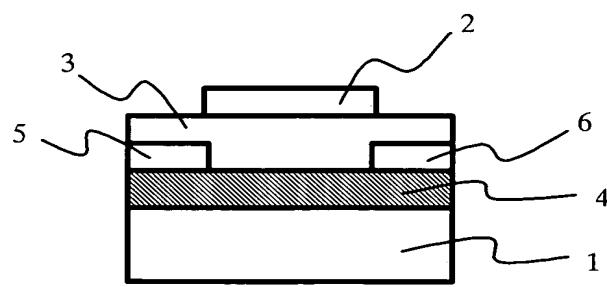
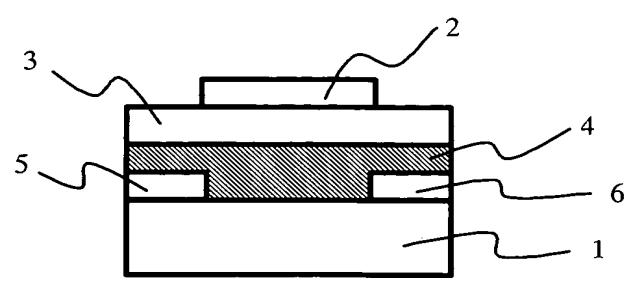
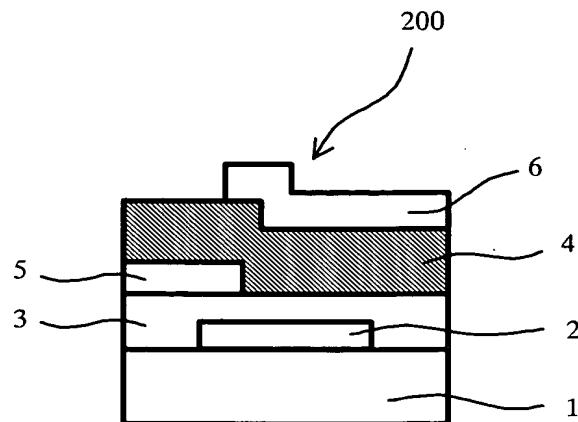
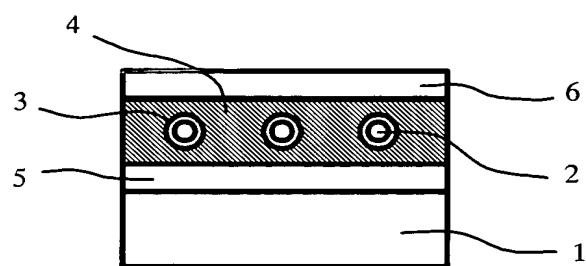


Fig. 1D





**Fig. 2A**



**Fig. 2B**

$\frac{3}{21}$

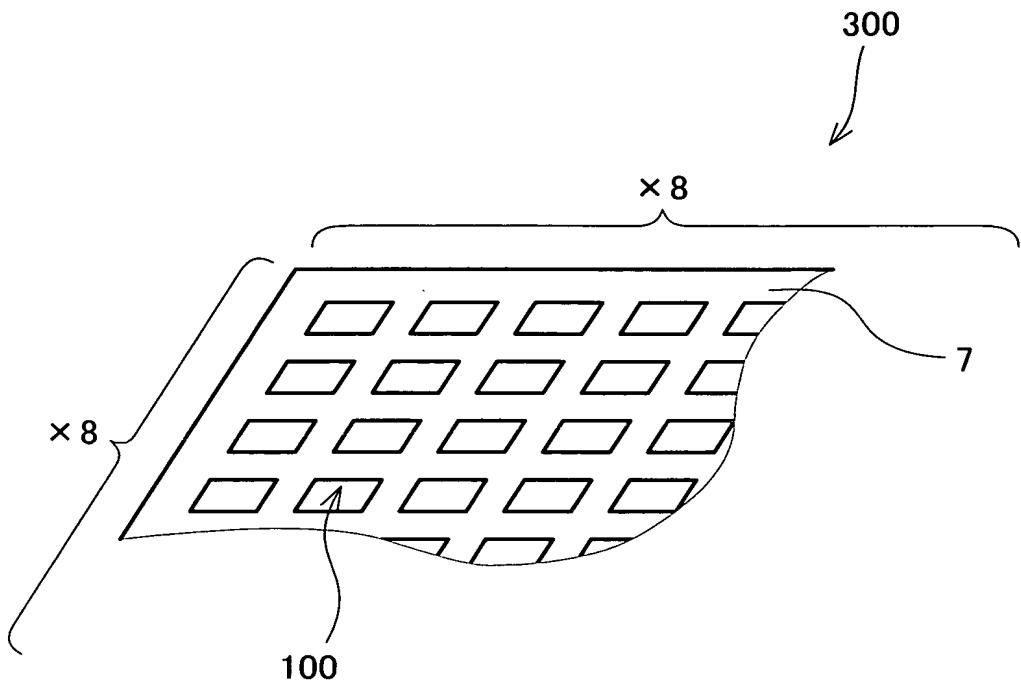


Fig. 3

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Fig. 4 A

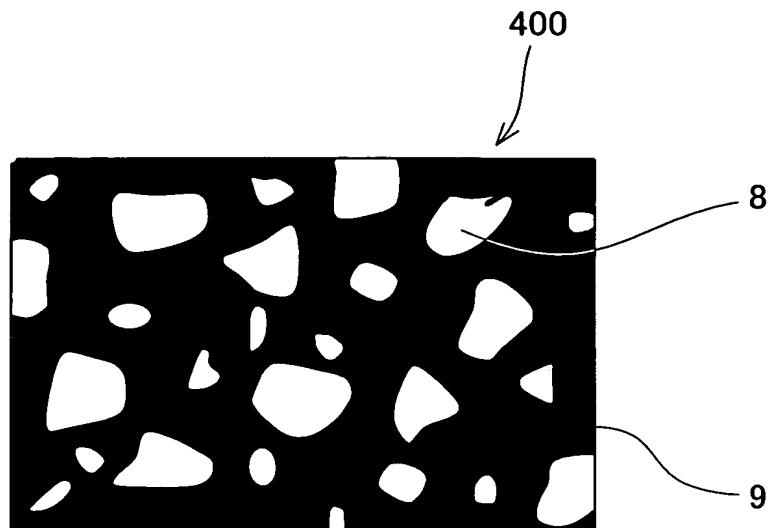
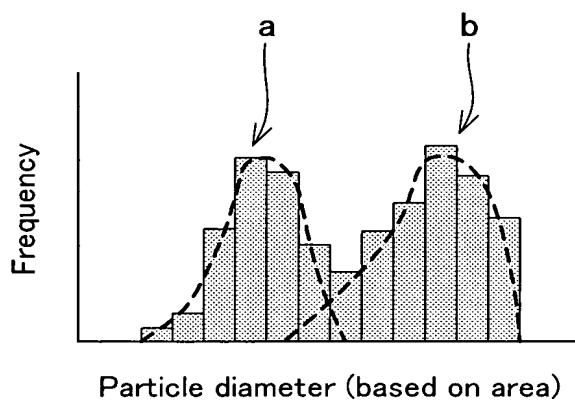


Fig. 4 B



P-type silicon crystal 1 Average particle diameter $20 \mu\text{m}$ (volume%)	P-type silicon crystal 2 Average particle diameter $1.5 \mu\text{m}$ (volume%)	Total filling rate (volume%)
0	0	0
10	0	10
20	0	20
40	0	40
40	15	55
40	20	60
40	25	65

Fig. 5

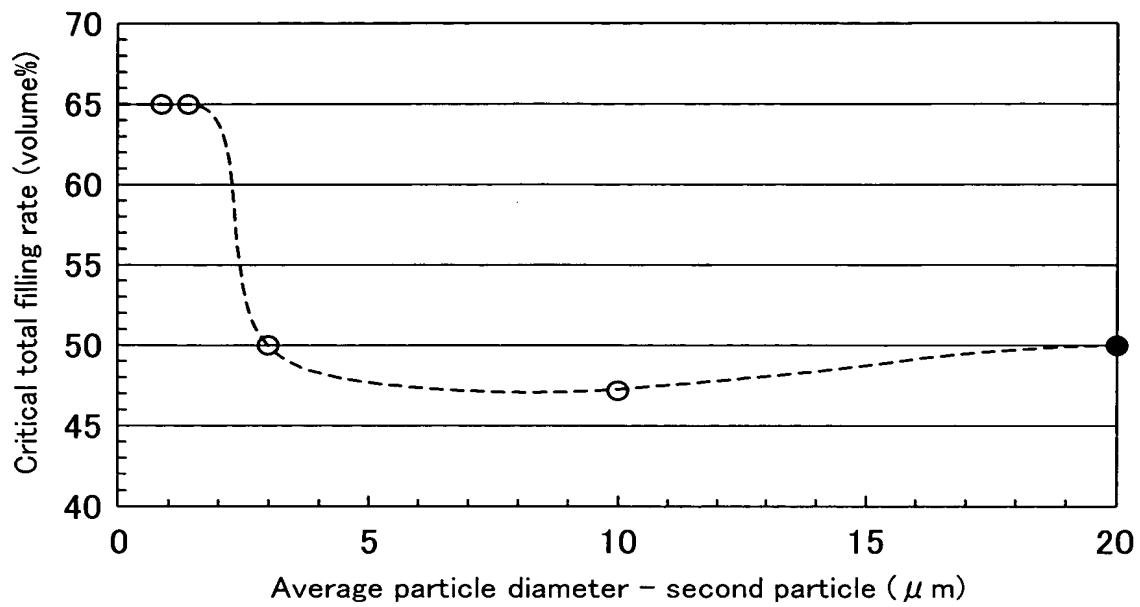


Fig. 6

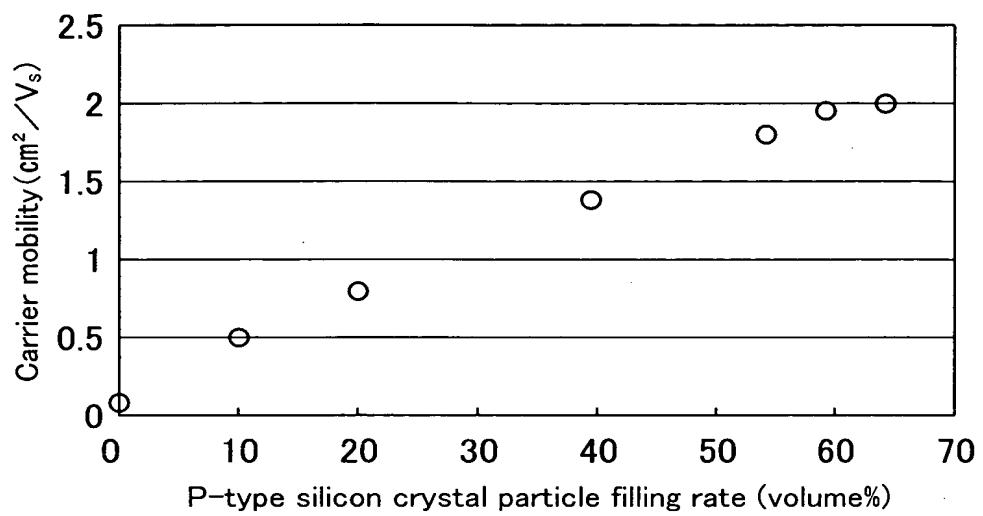


Fig. 7

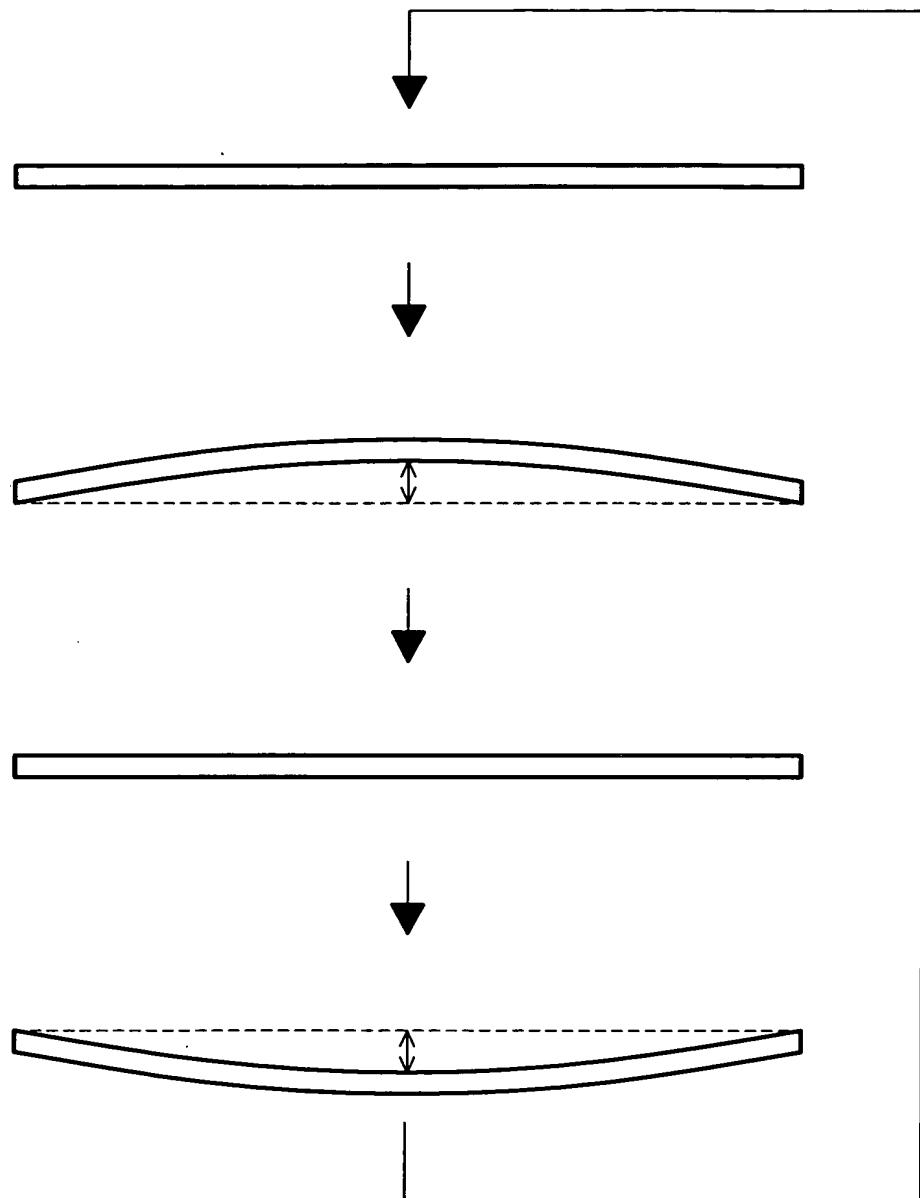


Fig. 8

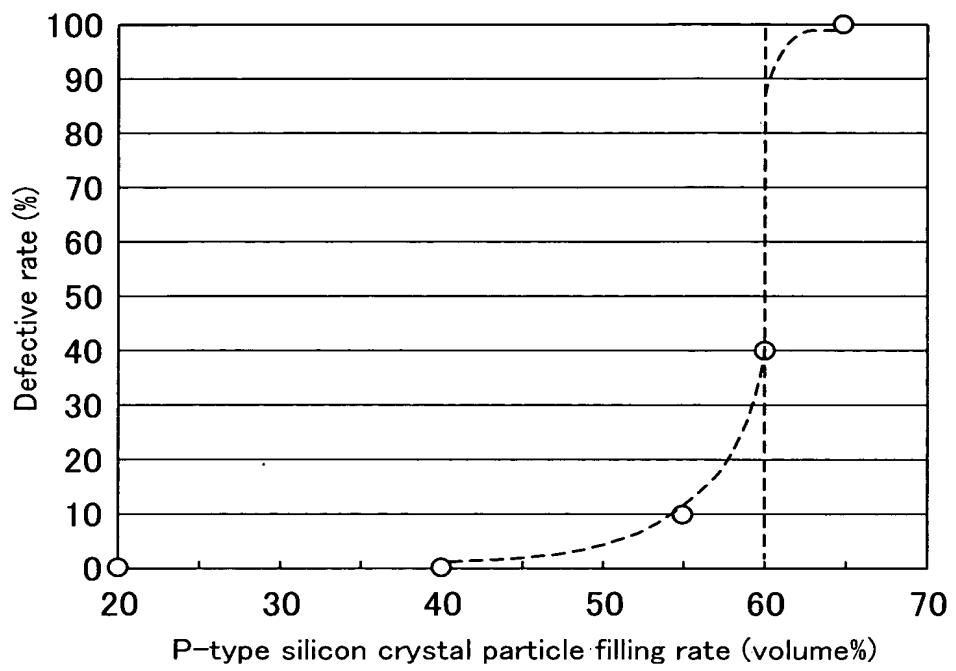


Fig. 9

Cu particle 1 Average particle diameter $10 \mu\text{m}$ (volume%)	Cu particle 2 Average particle diameter $1 \mu\text{m}$ (volume%)	Total filling rate (volume%)
0	0	0
10	0	10
30	0	30
40	5	45
40	20	60

Fig. 10

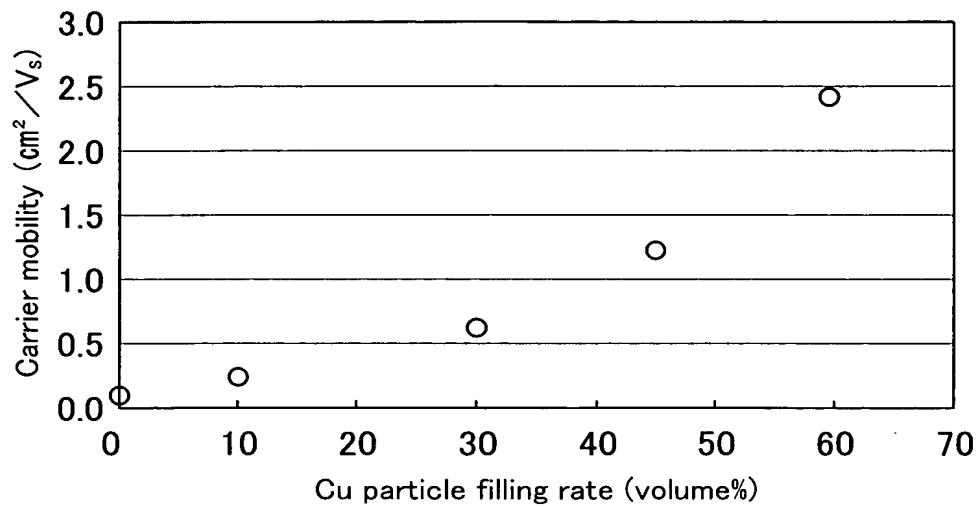


Fig. 11

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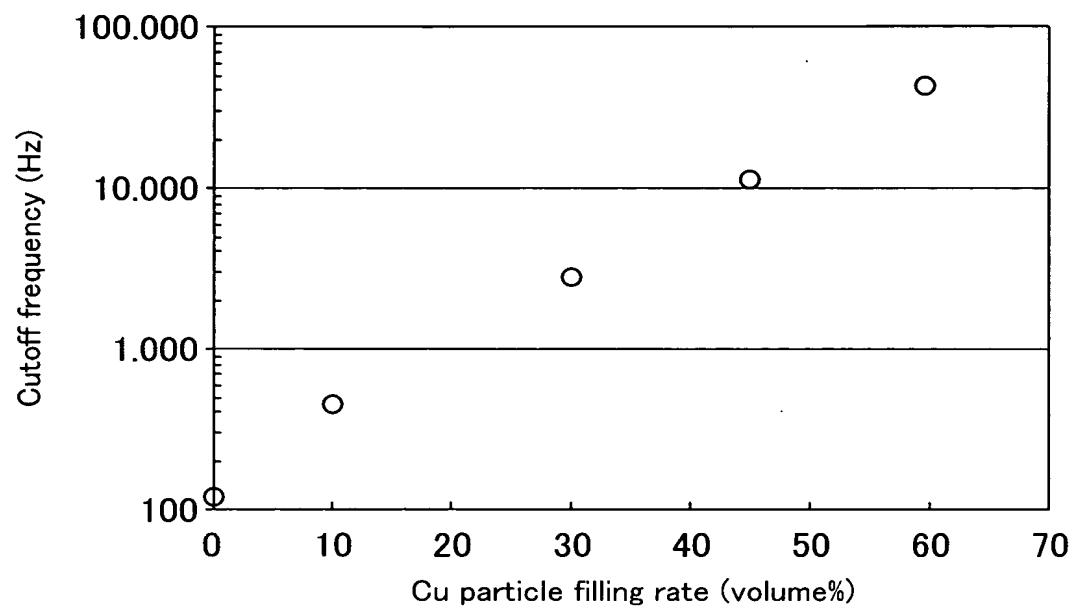


Fig. 12

	P-type silicon crystal 1 Average particle diameter $20 \mu\text{m}$ (volume%)	Cu particle 2 Average particle diameter $1 \mu\text{m}$ (volume%)	Total filling rate (volume%)	Carrier mobility ( $\text{cm}^2/\text{Vs}$ )	Cutoff frequency (kHz)
1st embodiment	40	0	40	1.4	2.2
3rd embodiment(1)	40	5	45	1.9	4.7
3rd embodiment(2)	40	10	50	2.5	8.5

Fig. 13

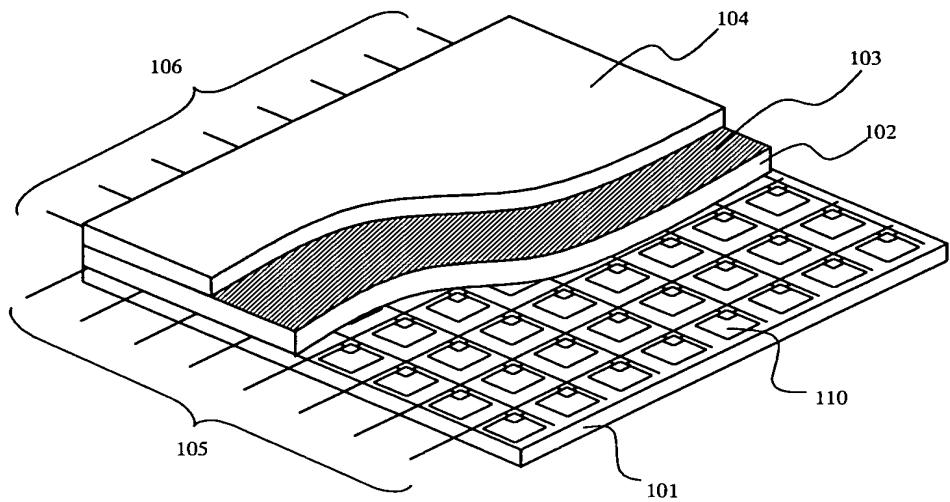


Fig. 14

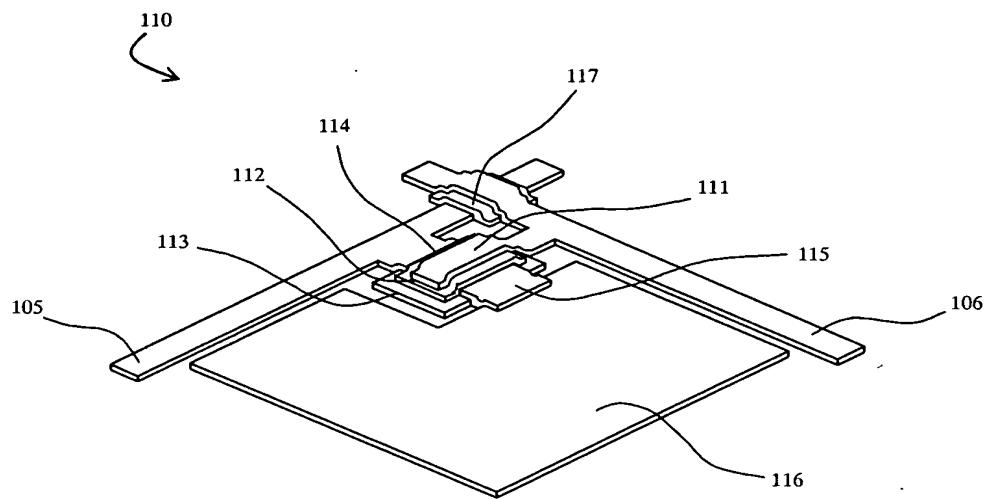


Fig. 15

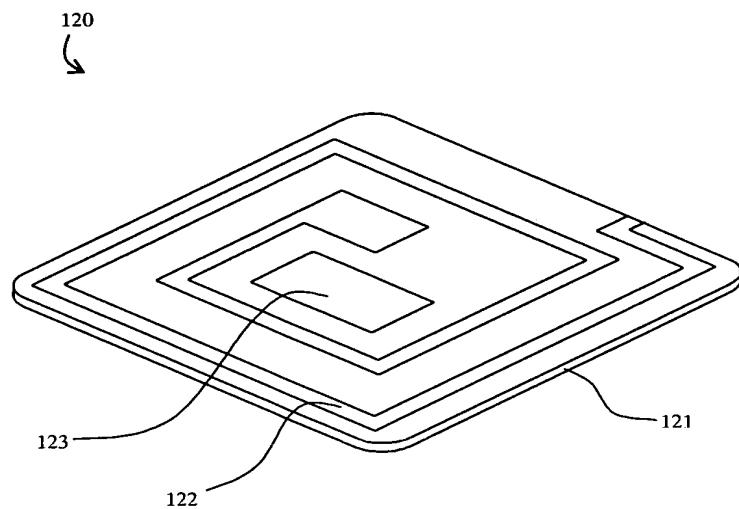


Fig. 16

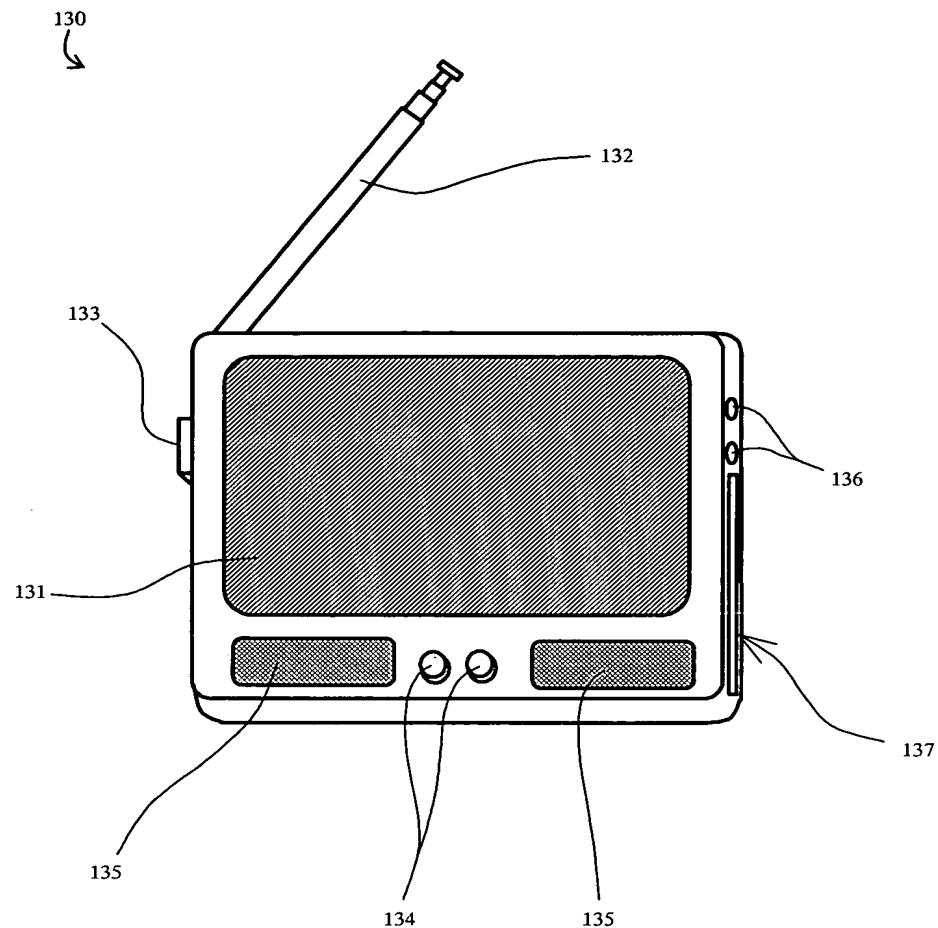


Fig. 17

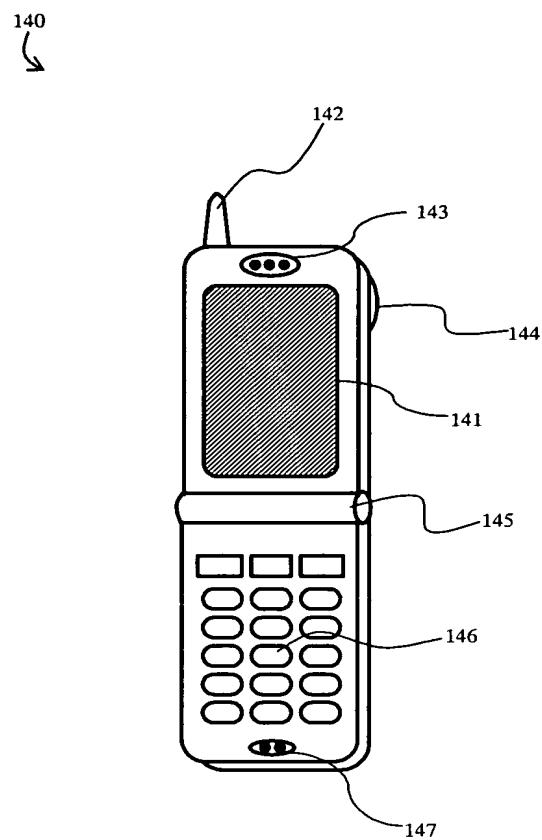


Fig. 18

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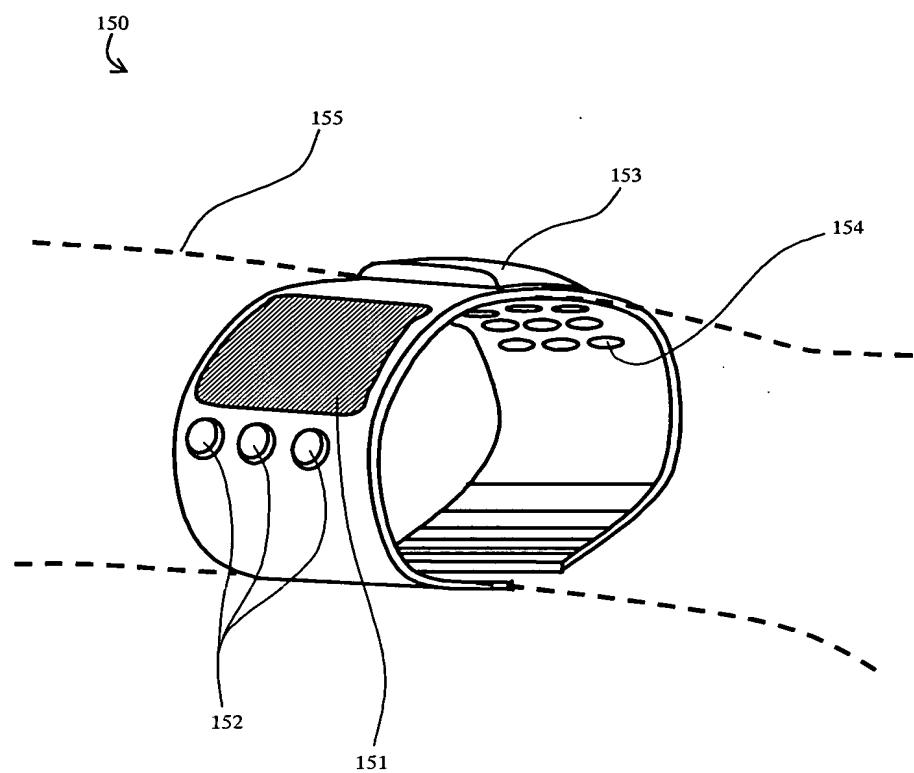


Fig. 19

REFERENCE MARK (1)

- 1 Substrate
- 2 Gate electrode
- 3 Gate insulating layer
- 4 Semiconductor layer
- 5 Source electrode
- 6 Drain electrode
- 7 Plastic substrate
- 8 Particle
- 9 Organic semiconductive material

100 TFT

- 101 Plastic substrate
- 102 Organic EL layer
- 103 Transparent electrode
- 104 Protective film
- 105 Source electrode line
- 106 Gate electrode line
- 110 TFT drive circuit
- 111 Gate electrode
- 112 Gate insulating layer
- 113 Semiconductor layer
- 114 Source electrode
- 115 Drain electrode
- 116 Pixel electrode
- 117 Insulating layer
- 120 Radio ID tag
- 121 Plastic substrate
- 122 Antenna portion
- 123 Memory IC portion

130 Portable TV

- 131 Display portion
- 132 Receiving portion
- 133 Power switch
- 134 Operation switch
- 135 Sound output device

REFERENCE MARK (2)

- 136 Input/output terminal
- 137 Recording media insertion portion
- 140 Cellular phone
- 141 Display portion
- 142 Receiving/sending portion
- 143 Sound output portion
- 144 Camera portion
- 145 Movable folding portion
- 146 Operation switch
- 147 Sound input portion
- 150 Portable medical device
- 151 Display portion
- 152 Operation switch
- 153 Medical treatment portion
- 154 Transdermal contact portion
- 155 Arm
- 200 TFT
- 300 Semiconductor property evaluation sample
- 400 Sectional surface